

Christopher G Frost

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

120
papers

6,601
citations

42
h-index

78
g-index

168
ext. papers

7,220
ext. citations

5.9
avg, IF

6.09
L-index

#	Paper	IF	Citations
120	Ratiometric Electrochemistry: Improving the Robustness, Reproducibility and Reliability of Biosensors. <i>Molecules</i> , 2021 , 26,	4.8	6
119	An Organophosphorus(III)-Selective Chemodosimeter for the Ratiometric Electrochemical Detection of Phosphines. <i>Chemosensors</i> , 2019 , 7, 19	4	1
118	Regioselective Transition-Metal-Catalyzed C ^β Functionalization of Anilines. <i>Synthesis</i> , 2018 , 50, 2693-2706	13.1	13
117	Ratiometric electrochemical detection of hydrogen peroxide and glucose. <i>Organic and Biomolecular Chemistry</i> , 2017 , 15, 2459-2466	3.9	16
116	Ratiometric electrochemical detection of Pd ^{II} interactions: application towards electrochemical molecular logic gates. <i>Supramolecular Chemistry</i> , 2017 , 29, 749-757	1.8	2
115	Remote C6-Selective Ruthenium-Catalyzed C ^β Alkylation of Indole Derivatives via δ Activation. <i>ACS Catalysis</i> , 2017 , 7, 2616-2623	13.1	111
114	Ruthenium-Catalyzed para-Selective C ^β Alkylation of Aniline Derivatives. <i>Angewandte Chemie</i> , 2017 , 129, 15327-15331	3.6	24
113	Ruthenium-Catalyzed para-Selective C-H Alkylation of Aniline Derivatives. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 15131-15135	16.4	72
112	Ruthenium-catalysed δ activation for remote meta-selective C-H functionalisation. <i>Chemical Society Reviews</i> , 2017 , 46, 7145-7153	58.5	202
111	Ratiometric electrochemical detection of β -galactosidase. <i>Organic and Biomolecular Chemistry</i> , 2017 , 15, 7122-7126	3.9	7
110	A Highly Regioselective Palladium-Catalyzed O,S Rearrangement of Cyclic Thiocarbonates. <i>European Journal of Organic Chemistry</i> , 2017 , 2017, 6441-6444	3.2	2
109	Ruthenium catalyzed remote C4-selective C-H functionalisation of carbazoles via δ activation. <i>Chemical Communications</i> , 2017 , 53, 13039-13042	5.8	23
108	δ -Halo carbonyls enable meta selective primary, secondary and tertiary C-H alkylations by ruthenium catalysis. <i>Organic and Biomolecular Chemistry</i> , 2017 , 15, 5993-6000	3.9	38
107	Beyond C2 and C3: Transition-Metal-Catalyzed C ^β Functionalization of Indole. <i>ACS Catalysis</i> , 2017 , 7, 5618-5627	13.1	268
106	A Peptide Nucleic Acid (PNA)-DNA Ferrocenyl Intercalator for Electrochemical Sensing. <i>Electroanalysis</i> , 2017 , 29, 917-922	3	8
105	Ruthenium(II)-Catalyzed C ^β Functionalization Using the Oxazolidinone Heterocycle as a Weakly Coordinating Directing Group: Experimental and Computational Insights. <i>ACS Catalysis</i> , 2016 , 6, 5520-5529	13.1	69
104	Community Sewage Sensors towards Evaluation of Drug Use Trends: Detection of Cocaine in Wastewater with DNA-Directed Immobilization Aptamer Sensors. <i>Scientific Reports</i> , 2016 , 6, 21024	4.9	28

103	Mechanistic insight into ruthenium catalysed meta-sulfonation of 2-phenylpyridine. <i>Catalysis Science and Technology</i> , 2016 , 6, 7068-7076	5.5	38
102	Copper Catalyzed Assembly of N-Aryloxazolidinones: Synthesis of Linezolid, Tedizolid, and Rivaroxaban. <i>European Journal of Organic Chemistry</i> , 2016 , 2016, 1305-1313	3.2	10
101	Approaches towards molecular amplification for sensing. <i>Analyst, The</i> , 2016 , 141, 3157-218	5	37
100	Use of the Hydantoin Directing Group in Ruthenium(II)-Catalyzed C-H Functionalization. <i>Journal of Organic Chemistry</i> , 2016 , 81, 10081-10087	4.2	26
99	Catalytic meta-selective C-H functionalization to construct quaternary carbon centres. <i>Chemical Communications</i> , 2015 , 51, 12807-10	5.8	130
98	Signal transduction and amplification through enzyme-triggered ligand release and accelerated catalysis. <i>Chemical Science</i> , 2015 , 6, 4978-4985	9.4	18
97	Community sewage sensors for monitoring public health. <i>Environmental Science & Technology</i> , 2015 , 49, 5845-6	10.3	46
96	A novel immobilization strategy for electrochemical detection of cancer biomarkers: DNA-directed immobilization of aptamer sensors for sensitive detection of prostate specific antigens. <i>Analyst, The</i> , 2015 , 140, 2628-33	5	51
95	A novel DNA biosensor using a ferrocenyl intercalator applied to the potential detection of human population biomarkers in wastewater. <i>Environmental Science & Technology</i> , 2015 , 49, 5609-17	10.3	36
94	Label-free impedimetric aptasensor with antifouling surface chemistry: A prostate specific antigen case study. <i>Sensors and Actuators B: Chemical</i> , 2015 , 209, 306-312	8.5	116
93	Ratiometric electrochemical detection of alkaline phosphatase. <i>Chemical Communications</i> , 2015 , 51, 5614-8	4.8	122
92	Ruthenium-Catalyzed O- to S-Alkyl Migration: A Pseudoreversible Barton-McCombie Pathway. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 10944-8	16.4	14
91	Ruthenium-Catalyzed O- to S-Alkyl Migration: A Pseudoreversible Barton-McCombie Pathway. <i>Angewandte Chemie</i> , 2015 , 127, 11094-11098	3.6	4
90	Trans-selective rhodium catalysed conjugate addition of organoboron reagents to dihydropyranones. <i>Molecules</i> , 2015 , 20, 6153-66	4.8	3
89	Recent developments in selective C-H functionalisation. <i>Organometallic Chemistry</i> , 2015 , 54-87	3	6
88	Robust and reusable supported palladium catalysts for cross-coupling reactions in flow. <i>Catalysis Science and Technology</i> , 2014 , 4, 948	5.5	42
87	Fine-tuning of ferrocene redox potentials towards multiplex DNA detection. <i>New Journal of Chemistry</i> , 2014 , 38, 5260-5263	3.6	21
86	Silyl-protected dioxaborinanes: application in the Suzuki cross-coupling reaction. <i>Organic and Biomolecular Chemistry</i> , 2014 , 12, 47-52	3.9	7

85	Copper-catalyzed one-pot synthesis of N-aryl oxazolidinones from amino alcohol carbamates. <i>Organic Letters</i> , 2014 , 16, 5020-3	6.2	31
84	Synthesis of Fluorescent Alanines by a Rhodium-Catalysed Conjugate Addition of Arylboronic Acids to Dehydroalanine Derivatives. <i>European Journal of Organic Chemistry</i> , 2013 , 2013, 550-556	3.2	8
83	Ruthenium-catalyzed C-H functionalization of arylpyrazoles: regioselective acylation with acid chlorides. <i>Organic Letters</i> , 2013 , 15, 5862-5	6.2	48
82	Coupling Reactions in Continuous-Flow Systems 2013 , 409-443		1
81	Sequential Chelation-Assisted Aromatic C-H Functionalisation via Catalytic meta Sulfonation. <i>Synlett</i> , 2013 , 24, 2687-2690	2.2	17
80	Rhodium-catalysed enantioselective synthesis of 4-arylchroman-2-ones. <i>Organic and Biomolecular Chemistry</i> , 2012 , 10, 32-5	3.9	32
79	A simple and effective colorimetric technique for the detection of boronic acids and their derivatives. <i>Analytical Methods</i> , 2012 , 4, 2215	3.2	20
78	Ruthenium-catalyzed meta sulfonation of 2-phenylpyridines. <i>Journal of the American Chemical Society</i> , 2011 , 133, 19298-301	16.4	391
77	The effect of reaction conditions on the nature of cadmium 1,3,5-benzenetricarboxylate metal-organic frameworks. <i>Inorganica Chimica Acta</i> , 2011 , 366, 303-309	2.7	16
76	Exploring Rhodium-Catalysed Conjugate Addition of Chiral Alkenylboronates Using Chiral Olefin Ligands. <i>Synthesis</i> , 2010 , 2010, 3243-3247	2.9	9
75	Heterogeneous catalytic synthesis using microreactor technology. <i>Green Chemistry</i> , 2010 , 12, 1687	10	251
74	Rhodium-catalysed conjugate addition of arylboronic acids to enantiopure dehydroamino acid derivatives. <i>Organic and Biomolecular Chemistry</i> , 2010 , 8, 5120-5	3.9	10
73	Dipyridyl beta-diketonate complexes: versatile polydentate metalloligands for metal-organic frameworks and hydrogen-bonded networks. <i>Chemical Communications</i> , 2010 , 46, 5067-9	5.8	47
72	Solid state interconversion of cages and coordination networks via conformational change of a semi-rigid ligand. <i>Chemical Communications</i> , 2010 , 46, 5064-6	5.8	22
71	Synthetic applications of rhodium catalysed conjugate addition. <i>Chemical Society Reviews</i> , 2010 , 39, 2093-2105	38.95	284
70	Alternatives to organoboron reagents in rhodium-catalyzed conjugate additions. <i>Chemistry - an Asian Journal</i> , 2010 , 5, 386-96	4.5	54
69	Catalytic enantioselective Dieckmann-type annulation: synthesis of pyrrolidines with quaternary stereogenic centers. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 1825-9	16.4	16
68	A modular approach to catalytic synthesis using a dual-functional linker for Click and Suzuki coupling reactions. <i>Tetrahedron Letters</i> , 2010 , 51, 3913-3917	2	21

67	A Practical Synthesis of β -Substituted tert-Butyl Acrylates from Meldrum's Acid and Aldehydes. <i>Synthesis</i> , 2009 , 2009, 627-635	2.9	7
66	Rhodium-catalyzed 1,4-additions to enantiopure acceptors: asymmetric synthesis of functionalized pyrrolizidinones. <i>Organic Letters</i> , 2009 , 11, 2491-4	6.2	18
65	Easy-separable magnetic nanoparticle-supported Pd catalysts: Kinetics, stability and catalyst re-use. <i>Journal of Catalysis</i> , 2009 , 268, 318-328	7.3	98
64	The rhodium-catalysed 1,2-addition of arylboronic acids to aldehydes and ketones with sulfonated S-Phos. <i>Tetrahedron Letters</i> , 2009 , 50, 7365-7368	2	35
63	Sulfur-tagged metal-organic frameworks and their post-synthetic oxidation. <i>Chemical Communications</i> , 2009 , 4218-20	5.8	92
62	Lewis base-promoted hydrosilylation of cyclic malonates: synthesis of beta-substituted aldehydes and gamma-substituted amines. <i>Journal of Organic Chemistry</i> , 2009 , 74, 3599-602	4.2	22
61	Subtle structural variation in copper metal-organic frameworks: syntheses, structures, magnetic properties and catalytic behaviour. <i>Dalton Transactions</i> , 2008 , 6788-95	4.3	44
60	Enantioselective rhodium-catalysed 1,4-additions of 2-heteroarylzinc donors using Me-DUPHOS. <i>Chemical Communications</i> , 2008 , 3795-7	5.8	19
59	Rhodium catalysed conjugate addition of a chiral alkenyltrifluoroborate salt: the enantioselective synthesis of hermitamides A and B. <i>Organic and Biomolecular Chemistry</i> , 2008 , 6, 4340-7	3.9	23
58	Rhodium Containing Magnetic Nanoparticles: Effective Catalysts for Hydrogenation and the 1,4-Addition of Boronic Acids. <i>Catalysis Letters</i> , 2008 , 122, 68-75	2.8	34
57	BINOL-3,3'-trifluoro N,N-dimethyl phosphoramidites: through-space ^{19}F , ^{31}P spin-spin coupling with a remarkable dependency on temperature and solvent internal pressure. <i>Chemistry - A European Journal</i> , 2008 , 14, 7808-12	4.8	30
56	Post-synthetic modification of tagged metal-organic frameworks. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 8482-6	16.4	255
55	Peptide modification through site-selective residue interconversion: application of the rhodium-catalysed 1,4-addition of aryl siloxanes and boronates. <i>Tetrahedron</i> , 2008 , 64, 9528-9539	2.4	27
54	Rhodium-catalysed 1,4-addition/halogenation: the crucial role of lithium halide. <i>Tetrahedron Letters</i> , 2008 , 49, 6217-6219	2	4
53	Rhodium-catalyzed conjugate addition-enantioselective protonation: the synthesis of alpha,alpha'-dibenzyl esters. <i>Organic Letters</i> , 2007 , 9, 2119-22	6.2	55
52	A New Method for Constructing Quaternary Carbon Centres: Tandem Rhodium-Catalysed 1,4-Addition/Intramolecular Cyclisation. <i>Advanced Synthesis and Catalysis</i> , 2007 , 349, 432-440	5.6	16
51	Tandem and Domino Catalytic Strategies for Enantioselective Synthesis. <i>Synthesis</i> , 2007 , 2007, 1-21	2.9	41
50	Site-selective modification of peptides using rhodium and palladium catalysis: complementary electrophilic and nucleophilic arylation. <i>Chemical Communications</i> , 2007 , 3903-5	5.8	40

- 49 Tandem molybdenum catalyzed hydrosilylations: an expedient synthesis of beta-aryl aldehydes. *Organic Letters*, **2007**, 9, 4259-61 6.2 15
- 48 Chelating Phosphane-Boranes as Hemilabile Ligands [Synthesis of $[Mn(CO)_3(\eta^2-H_3B\eta^1 Pppm)][BARF_4]$ and $[Mn(CO)_4(\eta^1-H_3B\eta^1 Pppm)][BARF_4]$. *European Journal of Inorganic Chemistry*, **2006**, 2006, 4068-4073 2.3 17
- 47 Indium Triflate Catalysed Ene and Friedel Crafts Additions to α -Imino Esters: A One-Pot Synthesis of α -Amino Acid Derivatives. *Letters in Organic Chemistry*, **2006**, 3, 228-230 0.6 4
- 46 Switching stereoselectivity in rhodium-catalysed 1,4-additions: The asymmetric synthesis of 2-substituted pyrrolizidinones. *Chemical Communications*, **2006**, 4389-91 5.8 11
- 45 Phosphine-olefin ligands: a facile dehydrogenative route to catalytically active rhodium complexes. *Chemical Communications*, **2006**, 3408-10 5.8 49
- 44 Rhodium-catalysed addition of organotrialkoxysilanes to α -substituted acrylic esters. *Organic and Biomolecular Chemistry*, **2006**, 4, 3235-41 3.9 27
- 43 Structure and reactivity of new phosphine ligands containing the hemi-labile sulfone moiety. *Dalton Transactions*, **2006**, 2251-62 4.3 13
- 42 The α -arylation of α -bromo- and α -chloroenones using palladium-catalysed cross-coupling. *Tetrahedron Letters*, **2006**, 47, 2863-2866 2 17
- 41 Ruthenium (II) complexes of the chelating phosphine borane $H_2ClB\eta^1 Pppm$. *Journal of Organometallic Chemistry*, **2005**, 690, 2829-2834 2.3 20
- 40 Rhodium-Catalysed 1,4-Additions in Water: Synthesis of Succinic Esters and α -Amino Acid Derivatives. *Synlett*, **2004**, 2004, 2022-2024 2.2 3
- 39 An electrochemical study of enzymatic oligonucleotide digestion. *Bioelectrochemistry*, **2004**, 63, 307-10 5.6 30
- 38 An electrochemical gene detection assay utilising T7 exonuclease activity on complementary probe-target oligonucleotide sequences. *Electrochemistry Communications*, **2004**, 6, 1227-1232 5.1 19
- 37 Rhodium catalysed tandem conjugate addition-protonation: an enantioselective synthesis of 2-substituted succinic esters. *Chemical Communications*, **2004**, 1984-5 5.8 48
- 36 Transition metal complexes of the chelating phosphine borane ligand $Ph_2PCH_2Ph_2P.BH_3$. *Dalton Transactions*, **2004**, 3883-92 4.3 70
- 35 Synthesis of Functionalised Phenylalanines Using Rhodium Catalysis in Water. *Advanced Synthesis and Catalysis*, **2003**, 345, 353-355 5.6 19
- 34 Enantioselective rhodium-catalysed addition of boronic acids using C₂-symmetric aryl diphosphite ligands. *Journal of Organometallic Chemistry*, **2003**, 680, 206-211 2.3 42
- 33 Diphosphine mono-sulfides: readily available chiral monophosphines. *Tetrahedron: Asymmetry*, **2003**, 14, 705-710 17
- 32 Silver phosphanes partnered with carborane monoanions: synthesis, structures and use as highly active Lewis acid catalysts in a hetero-Diels-Alder reaction. *Chemistry - A European Journal*, **2002**, 8, 2088-98 4.8 110

31	Counterion effects in indium-catalysed aromatic electrophilic substitution reactions. <i>Tetrahedron Letters</i> , 2002 , 43, 4789-4791	2	60
30	Catalytic Arylation of Sulfamoyl Chlorides: A Practical Synthesis of Sulfonamides. <i>Synlett</i> , 2002 , 2002, 1928-1930	2.2	38
29	Rhodium-catalysed aryl transfer to aldehydes: counterion effects with nitrogen containing ligands. <i>Tetrahedron Letters</i> , 2001 , 42, 6957-6960	2	84
28	Efficient aromatic and heteroatom acylations using catalytic indium complexes with lithium perchlorate. <i>Tetrahedron Letters</i> , 2001 , 42, 773-775	2	61
27	Indium-Catalysed Aryl and Alkyl Sulfonylation of Aromatics. <i>Synlett</i> , 2001 , 2001, 0830-0832	2.2	46
26	Rhodium catalysed addition of boronic acids to anhydrides: a new method for the synthesis of ketones. <i>Chemical Communications</i> , 2001 , 2316-7	5.8	55
25	[(PPh ₃)Ag(CB11H ₆ Y ₆)] (Y = H, Br): highly active, selective and recyclable Lewis acids for a hetero-Diels-Alder reaction. <i>Chemical Communications</i> , 2001 , 2286-2287	5.8	39
24	Chelating Monoborane Phosphines: Rational and High-Yield Synthesis of [(COD)Rh{(2-BH ₃)Ph ₂ PCH ₂ PPh ₂)](PF ₆) (COD = 1,5-cyclooctadiene). <i>Organometallics</i> , 2001 , 20, 4434-4436 ^{3,8}		44
23	Probing subtle ligand effects in the enantioselective transfer hydrogenation of ketones. <i>Tetrahedron: Asymmetry</i> , 2000 , 11, 1845-1848		16
22	Advances in indium-catalysed organic synthesis. <i>Journal of the Chemical Society, Perkin Transactions 1</i> , 2000 , 3015-3019		182
21	Synthesis of functionalised (triorganostannyl)tetrazoles: supramolecular structures of n-[2-(triorganostannyl)tetrazol-5-yl]pyridine (n = 2, 3 or 4). <i>Dalton Transactions RSC</i> , 2000 , 663-669		45
20	Indium Triflate: An Efficient Catalyst For Acylation Reactions. <i>Synlett</i> , 1999 , 1999, 1743-1744	2.2	159
19	Catalytic asymmetric hydrosilylation of ketones using mixed-ligand ruthenium complexes. <i>Tetrahedron Letters</i> , 1999 , 40, 5617-5620	2	27
18	Indium triflate-an efficient catalyst for hetero Diels-Alder reactions. <i>Tetrahedron Letters</i> , 1999 , 40, 5621-5624		66
17	Palladium catalysed mono-N-arylation of enantiopure diamines. <i>Tetrahedron: Asymmetry</i> , 1999 , 10, 1831-1834		18
16	Taxane diterpenes 5: Synthesis of the A- and C-rings: An unusual rearrangement of an N-hydroxyimino lactone. <i>Tetrahedron</i> , 1999 , 55, 6435-6452	2.4	22
15	Recent developments in aromatic heteroatom coupling reactions. <i>Journal of the Chemical Society Perkin Transactions 1</i> , 1998 , 2615		61
14	Iterative Amination Strategy in the Synthesis of Peptidomimetics. <i>Chemistry Letters</i> , 1997 , 26, 1159-1160.	7	5

13	Taxane diterpenes 1. Control of relative and absolute stereochemistry in intramolecular pyrylium ylide-alkene cyclizations for the synthesis of taxol precursors. <i>Tetrahedron</i> , 1996 , 52, 14081-14102	2.4	30
12	Concise synthesis of taxol a-ring components: Remote diastereoselective additions of alkenyl lithiums to aldehydes. <i>Tetrahedron Letters</i> , 1996 , 37, 9139-9142	2	15
11	Catalytic applications of transition metals in organic synthesis. <i>Contemporary Organic Synthesis</i> , 1995 , 2, 65		5
10	Enantiomerically Pure Acetals as Ligands for Asymmetric Catalysis. <i>Synlett</i> , 1994 , 1994, 551-552	2.2	27
9	Preparation of novel Sulfur and phosphorus containing oxazolines as ligands for asymmetric catalysis. <i>Tetrahedron</i> , 1994 , 50, 799-808	2.4	74
8	The Preparation of Functionalised Aryl Phosphines from Aryl Fluorides by Nucleophilic Aromatic Substitution with Potassium Diphenylphosphide. <i>Synlett</i> , 1993 , 1993, 509-510	2.2	28
7	Sulfides tethered to oxazolines: Ligands for enantioselective catalysis. <i>Tetrahedron Letters</i> , 1993 , 34, 7793-7796	2	61
6	Enantioselective palladium catalysed allylic substitution with thienyl oxazoline ligands. <i>Tetrahedron Letters</i> , 1993 , 34, 2015-2018	2	91
5	Asymmetric palladium catalysed allylic substitution using phosphorus containing oxazoline ligands. <i>Tetrahedron Letters</i> , 1993 , 34, 3149-3150	2	382
4	Asymmetric addition of diethylzinc to aromatic aldehydes using enantiomerically pure hydroxymethyl oxazoline ligands. <i>Tetrahedron: Asymmetry</i> , 1993 , 4, 649-650		24
3	Enantioselective palladium catalysed allylic substitution with sulfur-containing oxazoline ligands. <i>Tetrahedron: Asymmetry</i> , 1993 , 4, 1785-1788		49
2	Selectivity in palladium catalysed allylic substitution. <i>Tetrahedron: Asymmetry</i> , 1992 , 3, 1089-1122		456
1	Indium(III) Triflate 1-6		